

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	Unknown 10/824,123
Filing Date	Herewith
First Named Inventor	Han
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	003330 USA PO1/ETCH/METALJJB

Sheet 1 of 3

U. S. PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Document Number Number-Kind Code ² if known	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
ML		US- 4244743	01/13/1981	Blackburn et al.	
ML		US- 4433004	02/21/1984	Toshio et al.	
ML		US- 4743493	05/10/1988	Siohansi et al.	
ML		US- 4897315	1/30/1990	Gupta	
ML		US- 4910092	03/20/1990	Olson et al.	
ML		US- 4933239	06/12/1990	Olson et al.	
ML		US- 4939308	07/03/1990	Maxfield et al.	
ML		US- 4973445	11/27/1990	Singhelser et al.	
ML		US- 5244875	09/14/1993	Hauser et al.	
ML		US- 5366585	11/22/1994	Robertson et al.	
ML		US- 5470820	11/28/1995	Hauser et al.	
ML		US- 5498313	03/12/1998	Bailey et al.	
ML		US- 5624632	04/29/1997	Baumann et al.	
ML		US- 5680013	10/21/1997	Domfet et al.	
ML		US- 5753044	05/19/1998	Hanawa et al.	
ML		US- 5798016	08/25/1998	Oehrlein et al.	
ML		US- 5807613	09/15/1998	Maria et al.	
ML		US- 5824205	10/20/1998	Foster	
ML		US- 5833829	11/10/1998	Foster	

FOREIGN PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ if known	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	⁶
ML		JP-59205468	11/21/1984	Nat'l Res Inst	Abstract	
ML		JP-62174377	7/31/1987	Mitsubishi Heav	Abstract	
ML		PCT-9814980	04/09/1998	Lam Research		
ML		DE-9421671	08/22/1996	Siemens		✓
ML		EP-0849767-A2	06/24/1998	Applied Materia		
ML		DE-3543802-A1	06/19/1987	BBC AK		

Examiner Signature	<i>Carilla</i>	Date Considered	11/7/06
--------------------	----------------	-----------------	---------

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ²Applicant's unique citation designation number (optional). ³See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ⁴Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁷Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

20040413

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 3**Complete if Known**

Application Number	Unknown <u>10/524,123</u>
Filing Date	Herewith
First Named Inventor	Han
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	003330 USA P01/ETCHMETAL/JB

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
<u>ML</u>		US- 5948513	09/07/1999	Kriven et al.	
<u>ML</u>		US- 5964928	10/12/1999	Tomlinson et al.	
<u>ML</u>		US- 6213791	12/26/2000	Han et al.	
<u>ML</u>		US- 6231808	05/15/2001	Hashikura et al.	
<u>ML</u>		US- 20030029563A1	02/13/2003	Kaushal et al.	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ³
		Country Code ⁴ Number ⁵ Kind Code ⁶ (if known)	MM-DD-YYYY			
ML		JP-2000-096176	04/04/2000	Sumitomo	Abstract	
ML		EP-0997546-A1	05/03/2000	Sumitomo		
ML		JP-04333573	11/20/1992	Canon Inc.	Abstract	
ML		JP-2000-164572	06/16/2000	Kyocera Corp	Abstract	
ML		JP-11029378-A2	02-02-1999	Chichibu Onodo	Abstract	
ML		JP-10067554	03/10/1998	Kyocera Corp	Abstract	

Examiner Signature	<u>Carrell</u>	Date Considered	<u>2/17/06</u>
--------------------	----------------	-----------------	----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.87 and 1.88. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete if Known	
		Application Number	Unknown <i>60/824,123</i>
		Filing Date	Herewith
		First Named Inventor	Han
		Art Unit	Unknown
		Examiner Name	Unknown
Sheet 3	of 3	Attorney Docket Number 003330 USA PO1/ETCH/METAL/JB	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>ML</i>		An article titled, "The evolution of DRAM cell technology," Solid State Technology 89-101 (May 1997), El-kareh et al.	
<i>ML</i>		PCT Communication dated 11/25/1999, European Patent Office, P.B. 5818 Patentlaan, NL-2280 HV Rijwik	
<i>ML</i>		Hart, Anthony C. "Alloy plating problem cracked" Nickel Magazine, June 1998	
<i>ML</i>		Praxair, Tribomet McRAY Coatings, Praxair Surface Technologies, Ltd, 2002, Available at http://www.praxair.com/praxair.nsf/d63afe71c771b0d785256519006c5eal/cccb361d6209c12b/\$ (no innum)	

Examiner Signature <i>LoNilla</i>	Date Considered <i>2/17/06</i>
-----------------------------------	--------------------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.58. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.